

## ABSTRACT OF THE INVENTION

A wireless link between a first transmitter and a first receiver in a multiple access communications system is evaluated by receiving, at the first transmitter,

5 information that is intended for a second receiver and that is transmitted in a second transmission mode that is different from the current transmission mode and obtaining an error measure for the information that is received at the first receiver and intended for the second receiver. The obtained error measure is then used to determine if the second transmission mode is an acceptable  
10 transmission mode. In an embodiment, if the second transmission mode is determined to be acceptable, then the current transmission mode of the first receiver can be replaced by the second transmission mode. In an embodiment, the current transmission mode is replaced by the second transmission mode only if the second transmission mode is a "higher" transmission mode than the current  
15 transmission.